Notice of Allowability	Application No.	Applicant(s)
	10/628,021	LEVINSON, HARRY J.
	Examiner	Art Unit
	Amanda H. Merlino	2877
The MAILING DATE of this communication appears on the cover sheet with the correspondence address All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS. This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.		
1. This communication is responsive to <u>amendment filed 9/7i/05</u> .		
2. The allowed claim(s) is/are <u>1,3-8,10-18 and 20</u> .		
 3. Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some* c) None of the: Certified copies of the priority documents have been received. Certified copies of the priority documents have been received in Application No. 3. Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)). * Certified copies not received: 		
Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application. THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.		
4. A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.		
5. CORRECTED DRAWINGS (as "replacement sheets") must be submitted.		
(a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached		
1) hereto or 2) to Paper No./Mail Date		
(b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date		
Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).		
 DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL. 		
Attachment(s)		
1. Notice of References Cited (PTO-892)	5. Notice of Informal P	atent Application (PTO-152)
2. Notice of Draftperson's Patent Drawing Review (PTO-948)	6. Interview Summary	
3. Information Disclosure Statements (PTO-1449 or PTO/SB/0 Paper No./Mail Date	Paper No./Mail Dat 18), 7. Examiner's Amendn	
4. Examiner's Comment Regarding Requirement for Deposit of Biological Material	9.	Gregory Toggey, 10 Dervice of Examiner
		1 /YNOVED /

Reasons for Allowance

Claims 1, 3-8, 10-18, and 20 allowed.

As to claims 1, 3-8, 10-17, the prior of record, taken alone or in combination, fails to disclose or render obvious a method of monitoring an immersion lithography system comprising the steps of detecting an index of refraction of the immersion medium in a volumetric portion of the immersion medium through which an exposure pattern is configured and determining the index of refraction is acceptable by determining i) if the index of refraction is uniform across the traversal volume, ii) if the index of refraction in the traversal volume is within an acceptable range or iii) both i) and ii), in combination with the rest of the limitations of claim 1.

As to claims 18 and 20, the prior of record, taken alone or in combination, fails to disclose or render obvious a monitoring and control system for an immersion lithography system comprising a detector assembly for outputting a signal indicative of an index of refraction of the immersion medium in a volumetric portion of the immersion medium through which the exposure pattern is configured to traverse and a controller for receiving the signal indicative of the index of refraction and determining if the index of refraction is acceptable for exposing the wafer with the exposure pattern by determining i) if the index of refraction is uniform across the traversal volume, ii) if the index of refraction in the traversal volume is within an acceptable range or iii) both i) and ii), in combination with the rest of the limitations of claim 18.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Amanda H Merlino whose telephone number is 571-272-2421. The examiner can normally be reached on Monday and Thursday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Gregory J Toatley, Jr. can be reached on 571-272-2800 ext 77. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Amanda H Merlino Patent Examiner
Art Unit 2877
November 10, 2005

upersisory Patent Examine